

**Claims:**

Claim 1-9 (cancelled)

- 5    10 (new). A fixed wireless network extender (FWNE) device comprising:  
      one processor unit  
      a plurality of system buses  
      one control unit monitors and controls the performance of the radio units  
      a plurality of wireless networking radio units  
10    a plurality wired networking units  
      wherein processor unit running system software and computer networking  
            software; and  
      Whereby said a plurality of wireless networking radio units are attached to  
            said system buses; and  
15    Whereby said a plurality of wireless networking radio units may be attached to  
            said system buses via interface means; and  
  
      Whereby said a plurality of wired networking units are attached to said system  
            buses.  
20    11 (new). The FWNE device of claim 10 wherein the processor unit having  
            networking features means for processing computer networking packets  
            among said wireless networking radio units and wired networking units.  
25    12 (new). The FWNE device of Claim 10 wherein having selective number and  
            type of said wireless networking radio units for different networking  
            applications.  
13 (new). The FWNE device of Claim 10 wherein said wireless networking radio  
            units having same type and working at different RF channels.

14 (new). The FWNE device of Claim 10 wherein said wireless networking radio units having same type and working with different RF isolation means for avoiding self-interference.

15 (new). The FWNE device of Claim 10 wherein the radio control unit is an optional unit for said wireless network radio units needing additional hardware controls

5 16 (new). The FWNE device of Claim 10 wherein said wireless networking radio units are built on the same PCB.

10 17 (new). The FWNE device of Claim 16 wherein having configuration means for turning on and off each said wireless networking radio units.

18 (new). Apparatus according to claim 10 for interconnecting a plurality of networks, comprising:  
one said FWNE device of claim 10 having a plurality of said wireless networking radio units; and  
15 communicating a plurality of said wireless networking radio units to remote correspondent wireless networking radio and the networks behind them; and  
said FWNE device performing as central networking feature means for the networking communication among all the said remote wireless networking 20 radio and the networks behind them.

19 (new). Apparatus according to claim 18 wherein one of the said remote networks is the main network.

20 (new). Apparatus according to claim 10 for interconnecting a plurality of networks, comprising:  
25 having a said FWNE device of claim 10 configured with a plurality of said wireless networking radio units; and

communicating a plurality of said wireless networking radio units to remote correspondent wireless networking radio and the networks behind them; and

having a said FWNE device of claim 10 configured with a plurality of said

5               wired networking units; and

connecting a plurality of said wired networking units to correspondent wired networks; and

said FWNE device performing as central networking feature means for the networking communication among all the said remote wireless networking

10             radio and the networks behind them.

21 (new). Apparatus according to claim 20 wherein one of the said remote networks is main network.

22 (new). Apparatus according to claim 20 wherein one of the said wired networks is main network.